

## PHYSICAL PROPERTY MODIFICATION OF NANOTUBES

### Abstract of the Disclosure

5 A method of modifying a physical property of a nanotube comprises  
subjecting a nanotube having a defined lattice structure orientation  
to stress conditions sufficient to disrupt the lattice structure and form a dipole of  
dislocation cores therein, and wherein the dipole of dislocation cores split and  
propagate in the nanotube in a manner such that the dipole of dislocation cores  
are separated by at least one domain of modified structure, and wherein the  
physical property of the nanotube are altered.